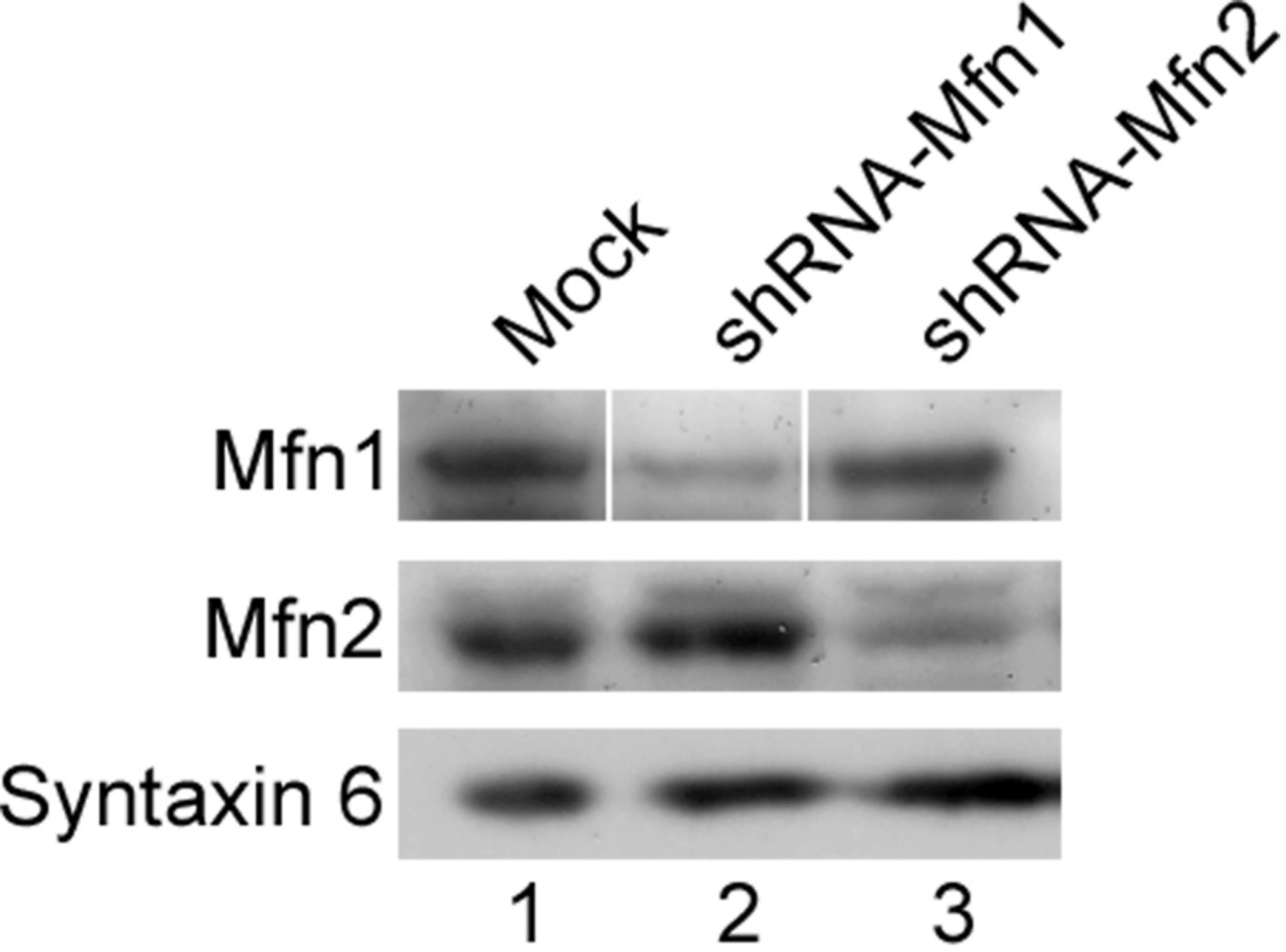
SUPPLEMENTAL MATERIALS

SUPPLEMENTAL FIGURES AND LEGENDS

Supplemental Figure S1. Efficiency and specificity of shRNA-mediated RNAi against Mfn1 and Mfn2. HeLa cells were transiently transfected with mock (lane 1) or vectors expressing shRNA against either Mfn1 (lane 2) or Mfn2 (lane 3). At 72 h after transfection, the total membranes from cells (20 μg of protein) were analyzed by Western blotting with antibodies against Mfn1 (top panel), Mfn2 (middle panel), and syntaxin 6 (bottom panel).

Supplemental Figure S2. Effect of the TM-less Mfn2 mutant ($Mfn2^{\Delta TM}$) on mitochondrial morphology in USP30-depleted cells. (A) USP30-deficient cells were transiently transfected with mtRed together with FLAG-tagged $Mfn2^{\Delta TM}$. After staining of $Mfn2^{\Delta TM}$ with anti-FLAG antibody, the cells were observed by fluorescence microscopy. Signals for mtRed (left panel) and FLAG (right panel) are shown. Bar, 10 μm. (B) The bar graph shows the percentage of the designated cells expressing $Mfn2^{\Delta TM}$ and having the indicated mitochondrial morphology. Data are expressed as the means ± s.d. of triplicate samples.



Supplemental Figure S1

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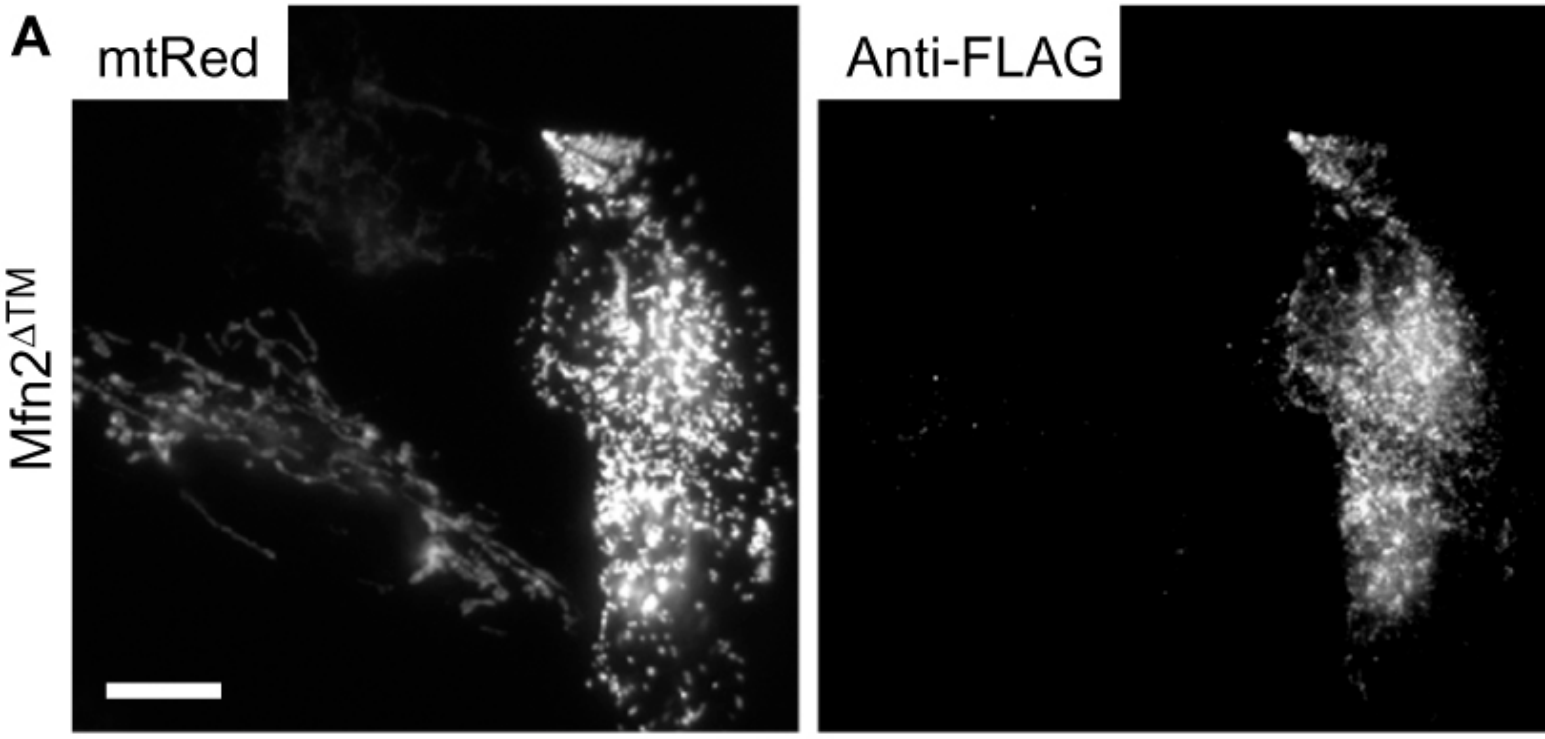

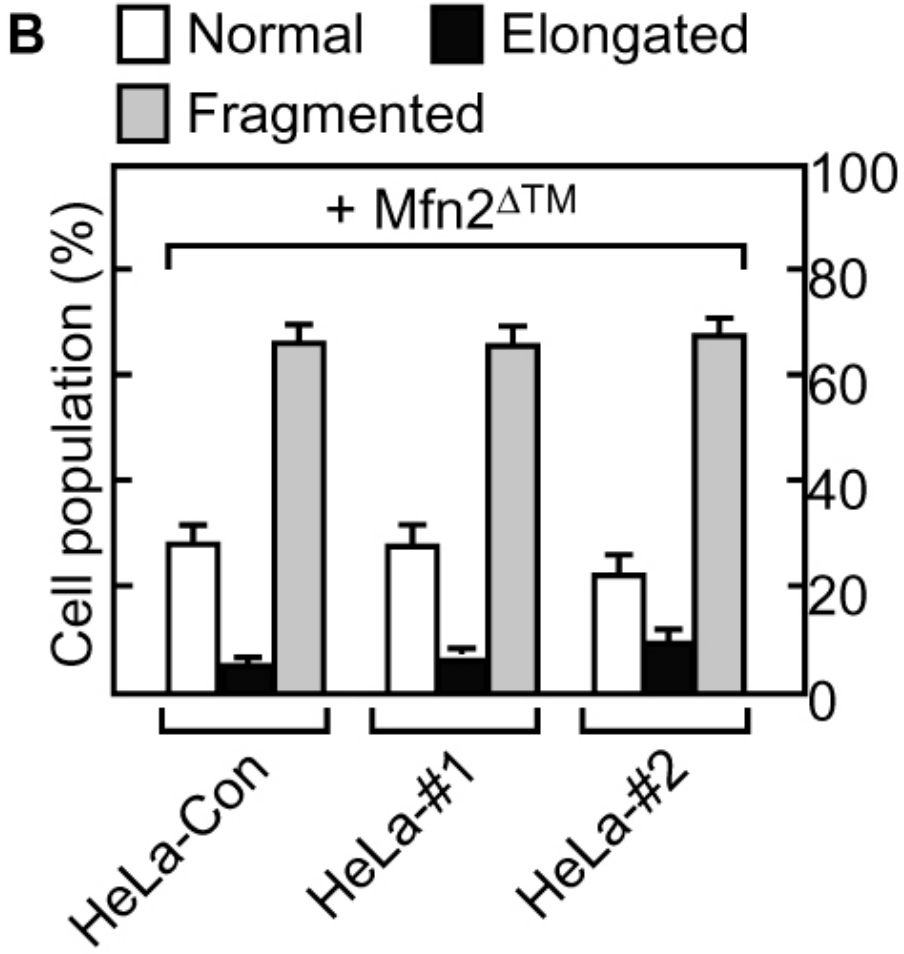

Supplemental Figure S2
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